

TECHNICAL MANUAL

ROTEL® RA-840BX3 STEREO INTEGRATED AMPLIFIER

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THE ROTEL CO., LTD.

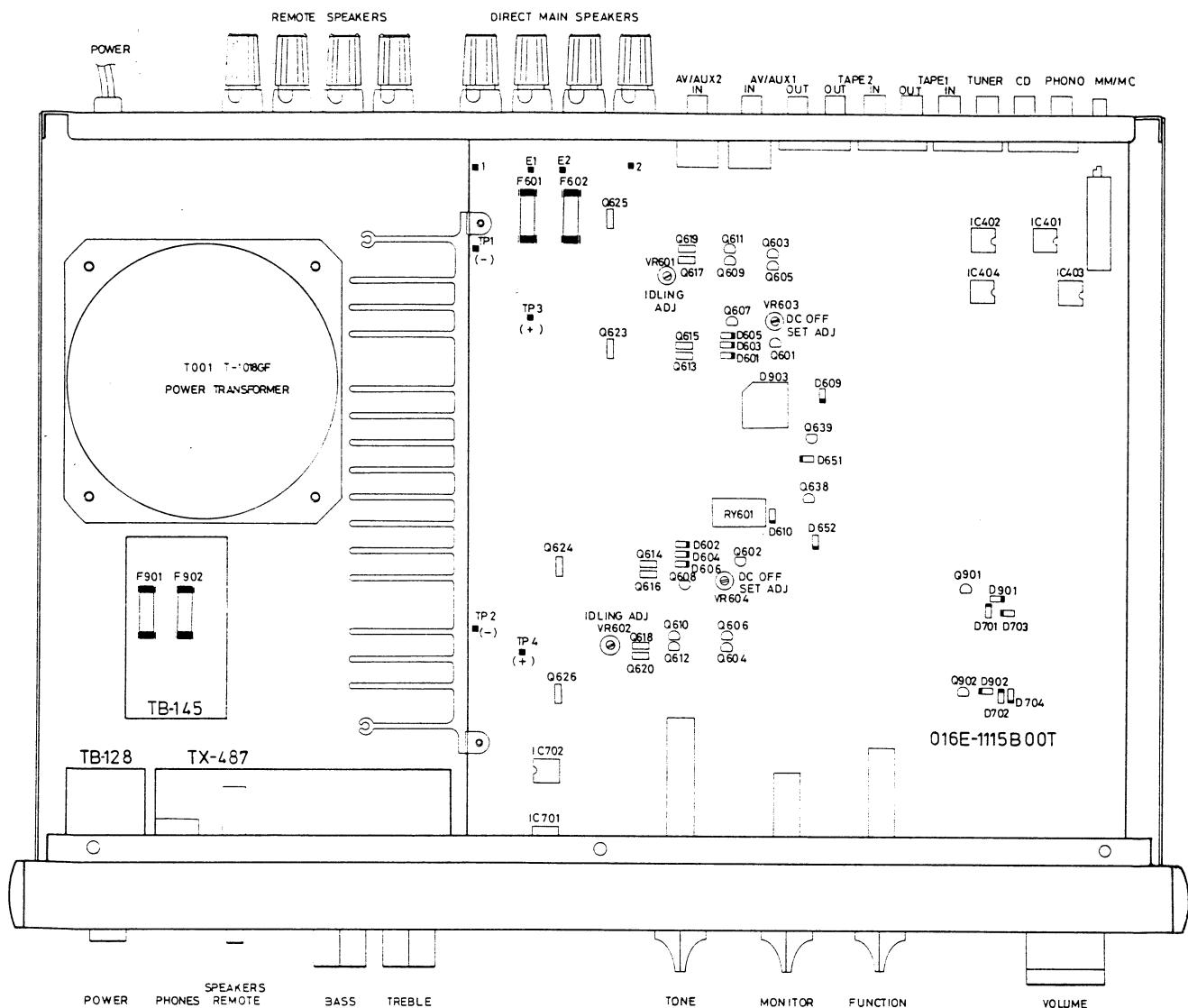
1-36-8 OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN

ROTEL ELECTRONICS CO., LTD.

ROTEL BLDG., 3F, NO. 35, FUSING N. ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN20C01 433

Chassis Layout



Power Amplifier Bias Adjustment

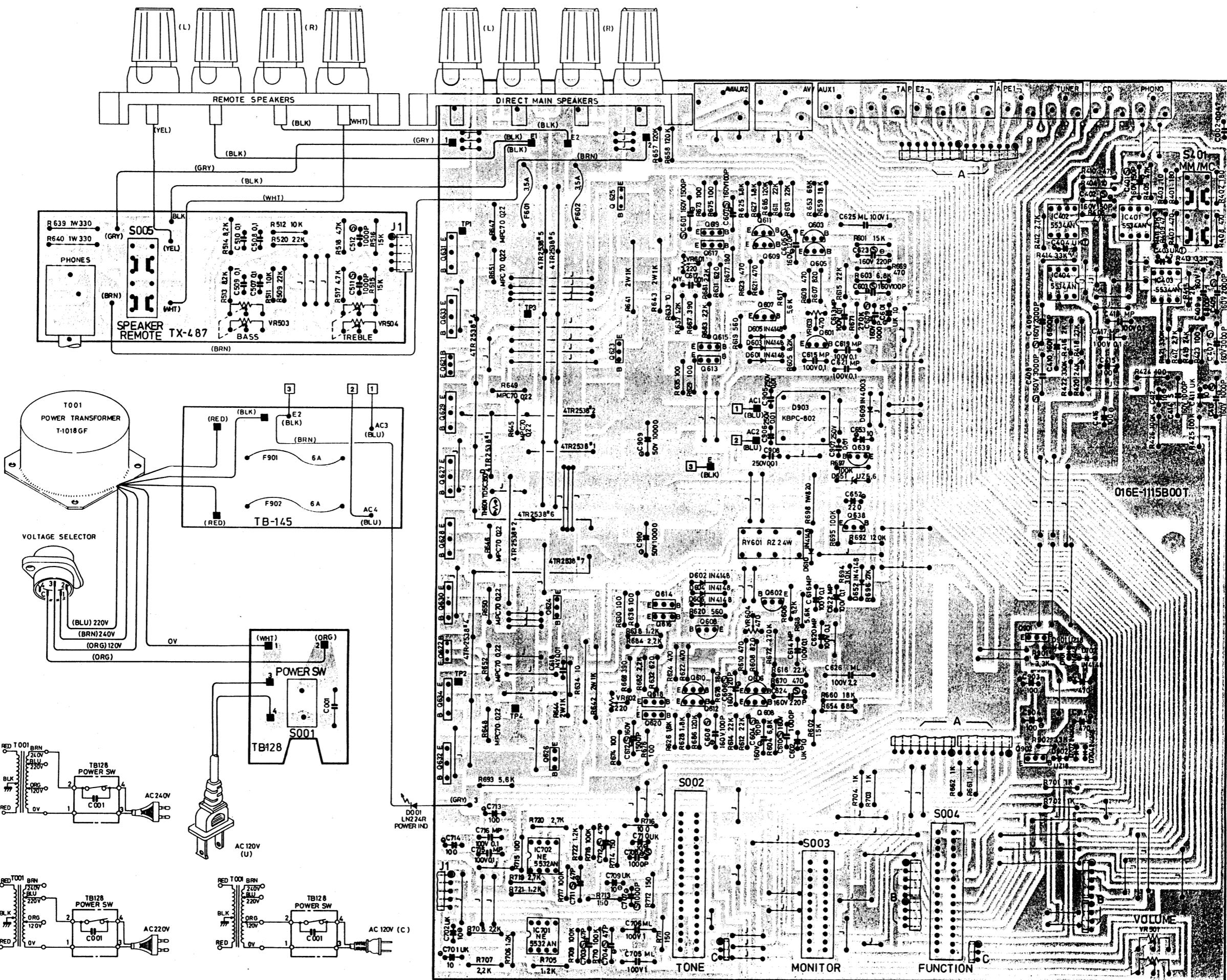
Instruments: DC milli-voltmeter

Notes: Prior to Bias Adjustment, run about 5 minutes with rated output (8 ohm) and warm up Power Transistor and Heat Sink.

Set Volume Control to Minimum.

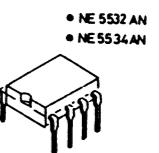
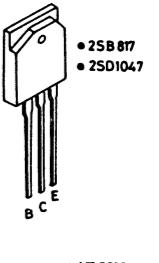
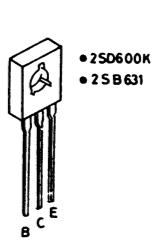
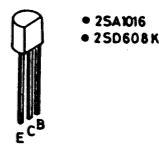
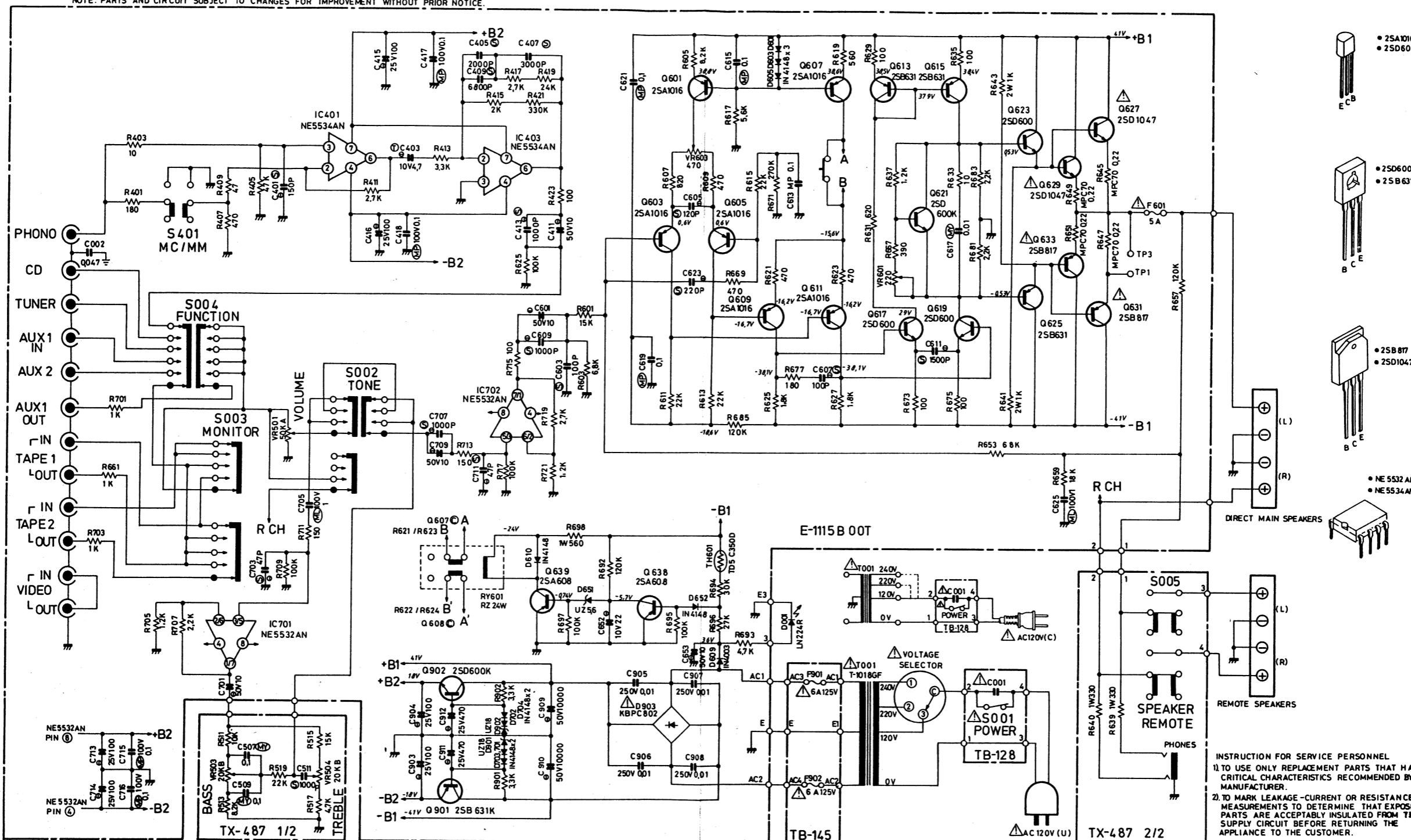
Step	Coupling		Adjust	Adjust for
	Plus Lead	Minus Lead		
1	TP3	TP1	VR601	DC milli-voltmeter reads 2.5mV
2	TP4	TP2	VR602	
3	1	E1	VR603	DC milli-voltmeter reads 0 mV
4	2	E2	VR604	

Wiring Diagram



Schematic Diagram

NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENT WITHOUT PRIOR NOTICE.



• NE 5532 AN

• NE5534AN

INSTRUCTION FOR SERVICE PERSONNEL
1. TO USE ONLY REPLACEMENT PARTS THAT HAVE THE
CRITICAL CHARACTERISTICS RECOMMENDED BY
MANUFACTURER.
2. TO MARK LEAKAGE-CURRENT OR RESISTANCE
MEASUREMENTS TO DETERMINE THAT EXPOSED
PARTS ARE ACCEPTABLY INSULATED FROM THE
SUPPLY CIRCUIT BEFORE RETURNING THE
APPLIANCE TO THE CUSTOMER.

Repair Parts List

Schematic Location	Computer No.	Description
IC401~404	IC00001735	IC (8 Pin), NE5534AN
IC701,702	IC00001693	IC(8 Pin), NE5532AN
Q601~612	TR10000023	Transistor, 2SA1016(G,H)
Q613~616	TR10000047	Transistor, 2SB631K (E,F)
Q617~624	TR40000069	Transistor, 2SD600K (E,F)
Q625,626	TR10000047	Transistor, 2SB631K (E,F)
Q627~680	TR40000045	Power Transistor, 2SD1047(D,E)
Q631~634	TR20000040	Power Transistor, 2SB817(D,E)
638, 639	TR10000126	Transistor, 2SA608K (F,G)
Q901	TR10000047	Transistor 2SB631K (E,F)
Q902	TR40000069	Transistor 2SD600K (E,F)

Schematic Location	Computer No.	Description
D601~606	DD10000100	Diode, IN4148
D609	DD10000068	Diode, IN4003
D610	DD10000100	Diode, IN4148
D651	DD20000168	Diode, UZ-5.6B(M,H)
D652	DD10000100	Diode, IN4148
D701~704	DD10000100	Diode, IN4148
D901, 902	DD20000041	Diode, UZ-18B (M,H)
D903	DD10000147	Diode, KBPC-802 / PBPC803
D001	DD40000095	LED, LN224R
TH601	DD60000260	Thermistor, TD5C350D
VR501	RV10000408	4TR-1505, 50KA x 2 Volume

Schematic Location	Computer No.	Description
VR503,504	RV10000433	4TR-1742, 20KB x 2 Bass, Treble
VR601, 602	RV40000046	VM6CKPV-1S-B 220 ohm
VR603, 604	RV40000058	VM6CKPV-1S-B 470 ohm
S001	SH40000120	C-3600B-T, Power Switch
S002	SH30000420	4TR-2401 063N K20 Tone
S003	SH30000407	4TR-2399 044N K20 Monitor
S004	SH30000419	4TR-2400 045N K20 Function SW
S005	SH1000239	4TR-2328, Speaker Remote
S401	SH1000264	4TR-2407, MM/MC
F601,602	FU12000100	Fuse, 250V 5A UL/CSA
	FU21000060	Fuse, Mini 5A

Schematic Location	Computer No.	Description
F901,902	FU23000074	Fuse, 250V 5A S
	FU12000136	Fuse, 125V Long 6A UL/CSA
	FU21000083	Fuse, Mini 6.3A
	FU23000086	Fuse, 250V 6.3A S